

Supplementary Material: Multi-Target Adversarial Frameworks for Domain Adaptation in Semantic Segmentation

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1. Mapping Classes to Super Classes

Tabs. 1, 2, 3 and 4 present how the original classes in the 4 considered datasets are mapped to 7 shared super classes.

Name	Orig. Id	Used?	Label
unlabeled	0		void
ego vehicle	1		void
rectification border	2		void
out of roi	3		void
static	4		void
dynamic	5		void
ground	6		void
road	7	✓	flat
sidewalk	8	✓	flat
parking	9		flat
rail track	10		flat
building	11	✓	construction
wall	12	✓	construction
fence	13	✓	construction
guard rail	14		construction
bridge	15		construction
tunnel	16		construction
pole	17	✓	object
polegroup	18		object
traffic light	19	✓	object
traffic sign	20	✓	object
vegetation	21	✓	nature
terrain	22	✓	nature
sky	23	✓	sky
person	24	✓	human
rider	25	✓	human
car	26	✓	vehicle
truck	27	✓	vehicle
bus	28	✓	vehicle
caravan	29		vehicle
trailer	30		vehicle
train	31	✓	vehicle
motorcycle	32	✓	vehicle
bicycle	33	✓	vehicle
license plate	-1		vehicle

Table 1: **Mapping classes of Cityscapes.** First two columns: names and ids of original classes; Third column: indication of the use or not of a class during training and test; Last column: Super classes that are mapped to.

Name	Orig. Id	Used?	Label
road	0	✓	flat
sidewalk	1	✓	flat
building	2	✓	construction
wall	3	✓	construction
fence	4	✓	construction
pole	5	✓	object
traffic light	6	✓	object
traffic sign	7	✓	object
vegetation	8	✓	nature
terrain	9	✓	nature
sky	10	✓	sky
person	11	✓	human
rider	12	✓	human
car	13	✓	vehicle
truck	14	✓	vehicle
bus	15	✓	vehicle
train	16	✓	vehicle
motorcycle	17	✓	vehicle
bicycle	18	✓	vehicle
unlabeled	-1		void

Table 2: **Mapping classes of GTA5.** Organization as in Table 1.

Name	Orig. Id	Used?	Label
bird	0		other
ground animal	1		other
curb	2	✓	construction
fence	3	✓	construction
guard rail	4	✓	construction
barrier	5	✓	construction
wall	6	✓	construction
bike lane	7	✓	flat
crosswalk - plain	8	✓	flat
curb cut	9	✓	flat
parking	10	✓	flat
pedestrian area	11	✓	flat
rail track	12	✓	flat
road	13	✓	flat
service lane	14	✓	flat
sidewalk	15	✓	flat
bridge	16	✓	construction
building	17	✓	construction
tunnel	18	✓	construction
person	19	✓	human
bicyclist	20	✓	human
motorcyclist	21	✓	human
other rider	22	✓	human
lane marking - crosswalk	23	✓	flat
lane marking - general	24	✓	flat
mountain	25		nature
sand	26		nature
sky	27	✓	sky
snow	28		nature
terrain	29	✓	flat
vegetation	30	✓	nature
water	31		nature
banner	32		object
bench	33		object
bike rack	34		object
billboard	35		object
catch basin	36		object
cctv camera	37		object
fire hydrant	38		object
junction box	39		object
mailbox	40		object
manhole	41		object
phone booth	42		object
pothole	43	✓	object
street light	44	✓	object
pole	45	✓	object
traffic sign frame	46	✓	object
utility pole	47	✓	object
traffic light	48	✓	object
traffic sign (back)	49	✓	object
traffic sign (front)	50	✓	object
trash can	51		object
bicycle	52	✓	vehicle
boat	53	✓	vehicle
bus	54	✓	vehicle
car	55	✓	vehicle
caravan	56	✓	vehicle
motorcycle	57	✓	vehicle
on rails	58	✓	vehicle
other vehicle	59	✓	vehicle
trailer	60	✓	vehicle
truck	61	✓	vehicle
wheeled slow	62	✓	vehicle
car mount	63		void
ego vehicle	64		void
unlabeled	-1		void

Table 3: Mapping classes of Mapillary Vistas. Organization as in Table 1.

Name	Orig. Id	Used?	Label
road	0	✓	flat
parking	1		flat
drivable fallback	2	✓	flat
sidewalk	3	✓	flat
rail track	4		flat
non-drivable fallback	5		flat
person	6	✓	human
animal	7		other
rider	8	✓	human
motorcycle	9	✓	vehicle
bicycle	10	✓	vehicle
autorickshaw	11	✓	vehicle
car	12	✓	vehicle
truck	13	✓	vehicle
bus	14	✓	vehicle
caravan	15	✓	vehicle
trailer	16	✓	vehicle
train	17	✓	vehicle
vehicle fallback	18	✓	vehicle
curb	19	✓	construction
wall	20	✓	construction
fence	21	✓	construction
guard rail	22		construction
billboard	23	✓	object
traffic sign	24	✓	object
traffic light	25	✓	object
pole	26	✓	object
polegroup	27		object
obs-str-bar-fallback	28		object
building	29	✓	construction
bridge	30		construction
tunnel	31		construction
vegetation	32	✓	nature
sky	33	✓	sky
fallback background	34		object
unlabeled	35		void
ego vehicle	36		void
rectification border	37		void
out of roi	38		void
license plate	39		vehicle

Table 4: Mapping classes of IDD. Organization as in Table 1.